

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2005/000948

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J31/18 B01J31/22 B01J31/34 C07C2/30

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J C07F C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 903 193 A (MALY ET AL) 2 September 1975 (1975-09-02) cited in the application column 3, lines 22-43 claims; examples	1-8, 10-24, 26
Y		2-4
X	US 3 813 453 A (WIDEMAN L, US) 28 May 1974 (1974-05-28) cited in the application the whole document	1-8, 10-24, 26
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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\*A\* document defining the general state of the art which is not considered to be of particular relevance

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\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*Z\* document member of the same patent family

Date of the actual completion of the international search

31 October 2005

Date of mailing of the international search report

10/11/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5618 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Goebel, M

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 059 739 A (HENDRIKSEN ET AL) 22 October 1991 (1991-10-22) cited in the application column 2, lines 21-24 column 5, lines 61-63 claims	1,5-8, 10-24,26
Y	-----	2-4
X	US 5 466 648 A (WINSLOW ET AL) 14 November 1995 (1995-11-14) column 4, line 67 - column 7, line 3 claims; examples	1-8, 10-24,26
X	US 3 784 629 A (MALY N,US ET AL) 8 January 1974 (1974-01-08) cited in the application the whole document	1-8, 10-24,26
X	US 3 784 630 A (MALY N,US ET AL) 8 January 1974 (1974-01-08) cited in the application column 5, lines 21-55 claims; table 1	1-8, 10-24,26
X	US 3 784 631 A (MENAPACE H,US ET AL) 8 January 1974 (1974-01-08) cited in the application column 4, lines 4-37 claims; table 1	1-24,26
X	US 3 897 512 A (BROWN ET AL) 29 July 1975 (1975-07-29) cited in the application claims; examples	1-8, 10-24,26
X	OLIVIER H ET AL: "Homogeneous and two-phase dimerization of olefins catalyzed by tungsten complexes. The role of imido ligands and Lewis acids" JOURNAL OF MOLECULAR CATALYSIS A: CHEMICAL, vol. 148, no. 1-2, 1 December 1999 (1999-12-01), pages 43-48, XP002351888 cited in the application page 45; table 1	1-8, 10-24,26
X	MENAPACE H R ET AL: "Changing the Reaction Paths of a Metathesis Catalyst" JOURNAL OF ORGANIC CHEMISTRY, vol. 40, no. 20, 1975, pages 2983-2985, XP002351889 cited in the application the whole document	1-8, 10-24,26
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 469 809 A (KLOSIEWICZ ET AL) 4 September 1984 (1984-09-04) column 4, lines 29-49; claims -----	1-8,10, 14-19
X	LEFEBVRE F ET AL: "ARYLOXY COMPLEXES AND CYCLOMETALLATED ARYLOXY ALKYLIDENE COMPLEXES OF TUNGSTEN (VI). APPLICATION TO THE METATHESIS OF FUNCTIONALIZED OLEFINS?" POLYHEDRON, vol. 14, no. 22, October 1995 (1995-10), pages 3209-3226, XP002351890 abstract page 3210 - page 3211 figure 1; table 1 page 3216 - page 3217 -----	1-8,10, 14-19
X	EP 0 526 101 A (NESTE OY) 3 February 1993 (1993-02-03) examples 1-8 -----	1-9,14, 16-19
X	EP 0 456 373 A (NESTE OY) 13 November 1991 (1991-11-13)  page 3, lines 6-8 -----	1-8,10, 14-16, 18,19
X	US 4 016 220 A (KUPPER ET AL) 5 April 1977 (1977-04-05) example 1 -----	1,5-8, 10,14-19
X	US 4 010 113 A (OFSTEAD ET AL) 1 March 1977 (1977-03-01) example I; table 1 column 4, lines 8-16 -----	1,2,5-8, 10,14-19
A	US 4 727 215 A (SCHROCK ET AL) 23 February 1988 (1988-02-23) claim 1; example II -----	1,7,13, 16,17